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TITLE : PAPER MAKING METHOD BY ADDING HIGH MOLECULAR WEIGHT
POLY(VINYLAMINE) TO WET-END CELLULOSE FIBER SLURRY

ABSTRACT : PURPOSE: To produce a sufficiently reinforced paper by adding a specified amt. of special poly(vinylamide) into an aq. slurry of cellulose fibers and then making paper sheets from the slurry.

CONSTITUTION: Poly(vinylaminde) having $\geq 10^6$ average mol.wt. in which $\geq 10\%$ is hydrolyzed to form vinylamine units is added by 0.005 to 0.5 wt.% of the fiber amt. to an aq. slurry of cellulose fibers, and the resultant slurry is then subjected to papermaking processes. Preferably, the poly(vinylamide) has 1.8 to 9×10^6 average mol.wt. It is also preferable that about $\geq 90\%$ of the poly(vinylamide) is hydrolyzed to produce vinylamine units.

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